BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

Name Of Work :- Detailed Estimate for Annual Maintenance of Street Lights Package D-5 in T.Dasarahalli ward No 15

Budget Head ..... P0300 .....

Division No.....14..... Estimate No. .....14..... For Rs.= **21,20,000.00**

SR Page. No.		Description of Work	Unit	Qty.	Rate Per Year Rs. Ps.	Amount
	AR VideNo SE(ELE/PR/676/2021-22 Dt:07.12.2021	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed below. **36/40 W fluorescent tube light street lighting system.**	Each	30	685.45	20563.50
2	AR VideNo SE(ELE/PR/676/2021-22 Dt:07.12.2021	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed below. **125W HPMV Park lighting system.**	Each	12	756.29	9075.48
3	AR VideNo SE(ELE/PR/676/2021-22 Dt:07.12.2021	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed belowPoles with **250W HPSV street lighting system.**	Each	851	1019.41	867517.91
4	AR VideNo SE(ELE/PR/676/2021-22 Dt:07.12.2021	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed below **400 watts HPSV street light /High mast lighting system.**	Each	36	1118.08	40250.88
5	AR VideNo SE(ELE/PR/676/2021-22 Dt:07.12.2021	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **24 Watt to 40 Watt LED Park/ street lighting system.**	Each	473	880.01	416244.73

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

Executive Engineer (Ele)
Bruhat Bangalore Mahanagara Palike
Dasarahalli Zone

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6	AR VideNo SE(ELE/PR/676/2021-22 Dt:07.12.2021	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **40 Watt to 65 W LED street Light lighting system.**	Each	49	1147.43	56224
7	AR VideNo SE(ELE/PR/676/2021-22 Dt:07.12.2021	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **90W LED street light lighting system.**	Each	27	1377.66	37196.82
8	AR VideNo SE(ELE/PR/676/2021-22 Dt:07.12.2021	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for**110/120 watt LED street light lighting system**	Each	1	1575.5	1575.50
9	AR VideNo SE(ELE/PR/676/2021-22 Dt:07.12.2021	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **150/180 watt LED street light /High mast lighting system.**	Each	1	1871.51	1871.51
10	31/5.44.2	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility.**300mmx450mmx214mm**	Each	10	5127.00	51270.00
11	26/5.13.4	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947 **100 to 125Amps**	Each	22	7200.00	158400.00
12	27/5.17.3	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.**50-63 Amps SP**	Each	24	723.00	17352.00
13	32/5.48	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.	Each	24	4030.00	96720.00
14	6/2.3/2.3.3	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694 confirming to latest amendments.**6 sqmm**	Mtr	10	70.00	700.00
15	43/6.17/6.17.4	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.**6 sqmm**	Each	100	7.00	700.00

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Executive Engineer (Ele)

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	145/300/4 1.07	1.1 kV, LT Aerial Bunched Cable, confirming to IS-14255: 1995 XLPE Insulation Parameter shall be as below 1. Hot Set Test: a) Elongation under Load: 50% (Max) b) Permanent Elongation After Cooloing: 3% (Max) 2. Thermal Aging in oven: a) Tensile Strength: 16 N/mm² (Min) b) Elongation: 375% (Min) 3. Water Absorption Test a) Water absorbed: 0.5 mg/cm² (Max) 4. Carbon Black Content shall be ranging from 2% to 3% 3x25 + 1x25 + 1x16 Sqmm Street light (Insulated Messenger cum Neutral)	Km	1.4	147000	205800.00
17	224/270/3 4.04 (2018-19 SR)	Stringing of 1.1 kV grade Aerial Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70) (Insulated Messenger Neutral) + (1x25) (Street Light Control)	Km	1.4	22469	31456.60
18	40/6.4.4	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness In average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtrs	195	150	29250.00
19	41/6.5.6	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm	Mtrs	195	30	5850.00
		Total				2048019.00
		GST @12% 10, 11,12,13,14,15,16,17,18,19			597498.60	71699.83
		Misleniuos				281.17
		Grand Total				2120000.00

CERTIFICATE

1. The Place was inspected and work is essential
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD (Elec) SR of 2019-20 / , BESCOM SR approved rates
5. The Above Work is not taken up in any Previous Grants .

Jr/Asst Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
DASARAHALLI DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

ನಂ. 14 ಆಡಳಿತ (2) ದಿನಾಂಕ: 14 2021-2022
ದಿನಾಂಕ 20/3/22 ರ 21-20 ಲಕ್ಷಕ್ಕೆ
Twenty one lakh twenty ನ
Thousand only.
ಅಂದಾಜು ಮೊತ್ತಕ್ಕೆ ಮಂಜೂರಾತಿ ನೀಡಲಾಗಿದೆ.

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು (ವಿ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ

Sanction for Rs. 21,20,000.00/-
Rupees: Twenty one Lakh twenty thousand only
is accorded under head P020D - M & R
to street Lights
Registered at SE (Ele) No. SE/Ele/PR/694/21-22 Subject
to conditions contained in enclosed memo
No. 165 Date: 11/01/22.
SE/Ele/T-5/165/2021-22

(Electrical)

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